

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 383  | waveform with repeatedly with (cycle period)   | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/09/15 16:14 |
| L2    | 4    | 347/10.ccls. and waveform with repeatedly with (cycle period)                                      | US-PGPUB;<br>USPAT;<br>USOCR              | OR               | ON      | 2006/09/15 16:14 |
| S1    | 1    | 10/821901  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 11:26 |
| S2    | 42   | 347/11.ccls. and (multiplexer selector selection) with waveform                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:28 |
| S3    | 7    | 347/11.ccls. and (waveform drive adj signal) with plurality same delay\$4                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:29 |
| S4    | 1    | 347/11.ccls. and (waveform (drive fire firing) adj signal) with plurality same delay\$4 not S3     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:31 |
| S5    | 5    | 347/9.ccls. and (waveform (drive fire firing) adj signal) with plurality same delay\$4 not S3      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:33 |
| S6    | 4    | 347/10.ccls. and (waveform (drive fire firing) adj signal) with plurality same delay\$4 not S3     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:37 |
| S7    | 373  | "347"/\$.ccls. and (waveform (drive fire firing) adj signal) with delay\$4                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 14:16 |
| S8    | 20   | "347"/\$.ccls. and plurality near3 (waveform (drive fire firing) adj signal) with delay\$4         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 13:41 |
| S9    | 329  | plurality near3 (waveform (drive fire firing) adj signal) with delay\$4 not S8                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 14:15 |
| S10   | 0    | ("358" "400")/\$.ccls. and plurality near3 (waveform (drive fire firing) adj signal) with delay\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR               | ON      | 2006/09/14 14:15 |

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|-----|------|---|---|----|----|------------------|
| S11 | 32   | "347"/\$.ccls. and plurality with (waveform (drive fire firing) adj signal) with delay\$4     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 14:17 |
| S12 | 434  | "347"/\$.ccls. and (emi electromagnetic adj interference "e. m.i.")                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 14:18 |
| S13 | 272  | "347"/\$.ccls. and (emi electromagnetic adj interference "e. m.i.") and delay\$4              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 14:20 |
| S14 | 70   | "347"/\$.ccls. and (emi electromagnetic adj interference "e. m.i.") and delay\$4 with circuit | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 14:40 |
| S15 | 2819 | "347"/\$.ccls. and (time with (division divid\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 14:40 |
| S16 | 96   | "347"/\$.ccls. and (time with (division divid\$4)) same (head ic printhead die) with (color)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 16:02 |
| S17 | 1    | "6494554".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 16:05 |
| S18 | 1620 | "347"/\$.ccls. and (signal near3 line) and delay\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/14 16:08 |
| S19 | 41   | "347"/\$.ccls. and (reduc\$4) same (signal near3 line) same delay\$4                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/15 09:33 |
| S20 | 61   | "347"/\$.ccls. and number with (signal near3 line) same delay\$4                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/15 09:43 |
| S21 | 536  | "347"/10.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/15 11:55 |
| S22 | 5    | "347"/10.ccls. and imai.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/15 10:17 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S23 | 419 | "347"/10.ccls. and (waveform<br>(driv\$4 fire firing) adj2 (signal<br>pulse) (print\$4 record\$4) adj2 clock) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/09/15 10:18 |
|-----|-----|---|---|----|----|------------------|

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|                      |     |  |       |    |        |                  |
|----------------------|-----|--|-------|----|--------|------------------|
| S24                  | 154 | (US-6296340-\$ or US-5754193-\$ or<br>US-6644783-\$ or US-6705697-\$ or<br>US-6729708-\$ or US-6045208-\$ or<br>US-4009332-\$ or US-6398332-\$ or<br>US-6019453-\$ or US-6450605-\$ or<br>US-5444467-\$ or US-5550568-\$ or<br>US-5057855-\$ or US-6648438-\$ or<br>US-4887098-\$ or US-5144336-\$ or<br>US-5541629-\$ or US-6712438-\$ or<br>US-6447086-\$ or US-5984453-\$ or<br>US-6259463-\$ or US-5621440-\$ or<br>US-5896146-\$ or US-5867183-\$ or<br>US-6481817-\$ or US-6755495-\$).<br>did. or (US-6193345-\$ or<br>US-6130692-\$ or US-5428375-\$ or<br>US-6145948-\$ or US-6712451-\$ or<br>US-6648440-\$ or US-6726300-\$ or<br>US-6478397-\$ or US-6648439-\$ or<br>US-6712439-\$ or US-6293640-\$ or<br>US-5353051-\$ or US-5790139-\$ or<br>US-6386674-\$ or US-6607257-\$ or<br>US-4215350-\$ or US-5867200-\$ or<br>US-6264297-\$ or US-6042210-\$ or<br>US-6354687-\$ or US-5412406-\$ or<br>US-6705691-\$ or US-6530645-\$ or<br>US-6322183-\$ or US-5988785-\$ or<br>US-6616258-\$ or US-5909229-\$).<br>did. or (US-5157411-\$ or<br>US-6431677-\$ or US-5499042-\$ or<br>US-5028812-\$ or US-5708762-\$ or<br>US-6585339-\$ or US-6126261-\$ or<br>US-6520613-\$ or US-6158841-\$ or<br>US-6139126-\$ or US-6398346-\$ or<br>US-6629742-\$ or US-6234598-\$ or<br>US-6685291-\$ or US-5594478-\$ or<br>US-6390581-\$ or US-4520373-\$ or<br>US-4069485-\$ or US-6154233-\$ or<br>US-5608431-\$ or US-6120122-\$ or<br>US-6217147-\$ or US-5117374-\$ or<br>US-6382755-\$ or US-6312079-\$ or<br>US-6012797-\$ or US-6190000-\$).<br>did. or (US-5477243-\$ or<br>US-6102510-\$ or US-5907331-\$ or<br>US-5903289-\$ or US-5724077-\$ or<br>US-5644342-\$ or US-4689694-\$ or<br>US-6428144-\$ or US-6257690-\$ or<br>US-6431686-\$ or US-5280310-\$ or<br>US-6540325-\$ or US-5877784-\$ or<br>US-5563635-\$ or US-4344079-\$ or<br>US-5173717-\$ or US-4596995-\$ or<br>US-5357268-\$ or US-6402278-\$ or<br>US-5692108-\$ or US-6310639-\$ or<br>US-5543828-\$ or US-6305774-\$ or<br>US-5381164-\$ or US-6698857-\$ or<br>US-5933161-\$ or US-5214450-\$).<br>did. or (US-5187500-\$ or<br>US-5134425-\$ or US-5359352-\$ or<br>US-6672711-\$ or US-6109717-\$ or<br>US-5451988-\$ or US-6056385-\$ or | USPAT | OR | ON     | 2006/09/15 12:20 |
| 9/15/2006 4:26:06 PM |     |  |       |    | Page 4 |                  |

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|     |    |  |                              |    |    |                  |
|-----|----|--|------------------------------|----|----|------------------|
| S25 | 49 | ("4437752"   "4463359"   "4595935"<br>  "4596995"   "4695853"  <br>"4695854"   "4719477"   "4764659"<br>  "4982199"   "4989224"  <br>"4999650"   "5016023"   "5030971"<br>  "5049898"   "5057854"  <br>"5079189"   "5098503"   "5103246"<br>  "5160945"   "5327165"  <br>"5363134"   "5365312"   "5371530"<br>  "5541629"   "5604513"  <br>"5610635"   "5646660"   "5648804"<br>  "5684518"   "5696544"  <br>"5719605"   "5742305"   "5751302"<br>  "5755024"   "5803628"  <br>"5815172"   "5815180"   "5867183"<br>  "5886718"   "5946012"  <br>"5975667"   "6002420"   "6091891"<br>  "6109716"   "6126261"  <br>"6178009"   "6193345"   "6290333"<br>  "6318847").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 13:30 |
| S26 | 32 | schloeman.in.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 13:30 |
| S27 | 6  | schloeman.in. and multiplexer  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 13:50 |
| S28 | 1  | "6375295".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 14:37 |
| S29 | 1  | "20060086794".pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 14:59 |
| S30 | 35 | adjustable adj inverter  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 14:59 |
| S31 | 11 | adjustable adj inverter same delay   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/09/15 16:14 |